

Preparation procedures for testing the LANL/AAA spoke cavities

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The procedures consist of (1) buffered chemical polishing (BCP), (2) rinsing and high-pressure rinsing at 1000 - 1200 psi with ultra-pure water and installation of flanges, couplers and a vacuum valve in a class <100 clean room, (3) set up on the cryostat insert, leak test and baking at ~ 110 °C for about 2 days, (4) putting the insert into the vertical cryostat and pre-cool it indirectly by filling a vacuum-isolated layer between inner and outer vessels of the cryostat with liquid nitrogen, which leads to a cavity temperature ~ 250 K over night, and (5) fill the cryostat with liquid helium. These procedures will be described in detail.